

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-338916

(43)Date of publication of application : 26.11.1992

(51)Int.Cl.

G02B 27/28

(21)Application number : 03-138496

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(22)Date of filing : 14.05.1991

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(30)Priority

Priority number : 02208653	Priority date : 06.08.1990	Priority country : JP
02 84314	08.08.1990	
02 85591	13.08.1990	JP
03 69010	08.03.1991	JP
		JP

(54) ELEMENT FOR OPTICAL ISOLATOR, OPTICAL ISOLATOR AND SEMICONDUCTOR LASER MODULE USING THE SAME ELEMENT

(57)Abstract:

PURPOSE: To prevent reflected light from returning to a light source and to reduce the number of components and facilitate the assembly.

CONSTITUTION: An element 1 for the optical isolator is constituted by adhering two flat plate type polarizers 3 and 4 on both surfaces of one flat plate type Faraday rotator 2 in one body. The outer peripheral surface 1a of the element 1 for the optical isolator is cut in a circumferential shape so that when the outer peripheral surface 1a is installed in parallel to an optical axis L, light incidence/projection surfaces (m) and (n) of the element 1 for the optical isolator slant by a specific angle θ from a position perpendicular to the optical axis L. The element 1 for the optical isolator is only put in a cylindrical magnet which has an inner peripheral surface almost in the same shape with the outer peripheral surface of the element 1 and then the light incidence/projection surfaces (m) and (n) of the element 1 for the optical isolator slant by the specific angle θ from the position perpendicular to the optical axis L. The reflected light from the element 1 for the optical isolator itself does not return to the light source and is removed without any special jig. Further, no special fixing jig is required to fix the element 1 for the

